

January 1, 2012 – December 31, 2013 Delaware's Programmatic Milestones

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
Stormwater					
3/2012 Jan 2014	Promulgate revised and updated sediment and stormwater regulations (Section 7.1.1.4)	Regulations	DNREC, Sediment & Stormwater Management Program	Effective date near third quarter.	Outreach efforts are on-going. Regulatory promulgation is expected by March 2013; however, staff is recommending an effective date of January 1 st 2014 in order to provide adequate time for training.
12/2012 Completed	Draft of new Industrial Storm Water Regulations (Section 7.1.2.1.4 & 5.4)	Regulations	DNREC, Surface Water Discharges Section (SWDS)	Regulatory promulgation is expected to occur in 2014.	Draft Industrial stormwater regulations have been developed and will be combined with stormwater construction regulations. Promulgation is expected by 2014.
12/2012 Completed 7/2012	Draft of BMP manual for industrial stormwater sites (Section 7.2.2.1)	Manual	DNREC, SWDS		Draft BMP manual completed July 2012. Final version will be complete once regulations are promulgated.
12/2013	Stormwater retrofit for Seaford Central Elementary	Project	DNREC, Sediment & Stormwater Management Program	Enlarging a dry pond to receive runoff from untreated areas, and converting the dry pond to a bioretention system. Drainage area = 5 acres +/-.	The plan was developed by Duffield and reviewed by DNREC. Plan is not yet approved. Once it is approved, there is an anticipated Spring 2013 construction date, and construction is expected to be completed by Sussex Conservation District.
12/2013	Stormwater retrofit for the City of Seaford	Project	DNREC, Sediment & Stormwater Management Program	Includes a dry pond conversion to a wet pond; addition of new wet pond; and existing dry pond conversion to a shallow wetland system. Drainage area = 180 acres +/-	Sussex Conservation District has had a pre-application meeting with GMB who is developing a plan for this project. Plans have not been submitted for review. Fall 2013 anticipated construction date.

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
On-Site Wastewater					
Third Quarter 2013	Promulgate revised and updated on-site wastewater regulations (Section 6.4)	Regulations	DNREC, GWDS	The GWDS is anticipating going to Public Hearing in 2012.	Received feedback on regulations and DNREC likely to have additional public hearings. Effective date sometime around the third quarter of 2013.
12/2013	Revising and updating on-site and spray irrigation regulations (6.1.1.2)	Regulations	DDA DNREC, GWDS	The GWDS is anticipating going to Public Hearing in 2012.	Revisions to these regulations have been proposed and will be combined with Delaware's proposed onsite regulations for large onsite systems, currently pending promulgation in 2013. Currently they are an independent set of regulations.
4/2012 Completed 8/2012	Mapping of large On-site Wastewater Treatment and Disposal Systems (OWTDS) (Section 6.1.1.2)	Map	DNREC, Ground Water Discharges Section (GWDS)		Completed - Permitted wastewater mapped 8/2012.
Wastewater					
Early 2012 Completed 9/2012	General NPDES permit program for Aquatic Pesticide applications (Section 5.1.1)	Permit Program	DNREC, SWDS	Working on promulgation of the regulations. Expected to have regulations in place in January 2012.	Secretary's Order from DNREC signed in February, 2012 to enact Emergency Regulation (ER) • ER effective March 1, 2012 • ER effective until September 1, 2012 • Final regulation effective September, 2012
First quarter 2012 2013	Current Invista permitted nitrogen load reduced by 60% (Section 5.4)	Permitted load reduction	DNREC, SWDS	This permit (DE0000035) has been administratively extended. Invista scaled down and invested in new equipment. Package plant testing will be conducted in December 2011 thru Feb 2012. Expected operational start date for package plant in Summer of 2012.	Currently, awaiting amended application from Invista – expected March 2013. The facility is evaluating switching intake from river water to well water. Public Notice is expected in 2 nd quarter of 2013.
2012-2013 2013-2014	Revise the NPDES permits for the towns of Bridgeville and Seaford. Revised permits will include a compliance	Permitted load reduction	DNREC, SWDS	The Bridgeville permit (DE0020249) has also been administratively extended and is anticipated that it will	Bridgeville's permit went on public notice on 3/6/2013 and is expected to reduce nutrient loads by implementing spray irrigation. The permit includes a

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
	schedule with measurable goals to meet the new wasteload nutrient requirements of the WIP (Section 5.4)			be renewed during the first quarter of 2012.	compliance schedule and must be reviewed and approved by EPA. DNREC has received Seaford's application and a new permit is anticipated to be issued in 2014.
2012-2013	The Surface Water Discharges Section (SWDS) remains committed to reducing the NPDES permitting backlog in Delaware.	New Staff	DNREC, SWDS	An option the SWDS is exploring is hiring a seasonal employee to assist us on the permit backlog. There are challenges with this plan as funding is very limited for seasonal employees as well as the availability of trained personnel that could assist us in permit writing is very limited.	The SWDS will be hiring a part time seasonal engineer in the 2 nd quarter of 2013 to assist with writing and reviewing permits in order to address the permit backlog.
Agriculture					
2013	Lead efforts to correctly determine the quantity and nutrient content of Delmarva poultry litter (Section 9.6.4.10)	Model Credit	DNREC, DDA, UD		Data is being collected by the CBP Poultry Litter Panel for submission to the Chesapeake Bay Ag Workgroup.
2013	Assess the use of "Decision Nutrient Management" for Delaware (Section 9.6.1.7)	Inter-Departmental Review	DNREC, DDA		The CBP Nutrient Management Panel is in the process of reviewing and revising definitions and recommendations for modeling nutrient management practices. The results of this work will impact if and when Delaware reports nutrient management efforts as decision agriculture.
2012 2013	DNREC, DDA and USDA will continue working together to coordinate federal and state funding of the most effective conservation practices to reduce nutrient and sediment loads.	Coordinated Funding	DNREC, DDA, and USDA		Ongoing. DNREC is working with CBPO and Mark Dubin (UMD) to receive credit for conservation practices currently not used in scenario builder. Additionally, in January 2013 our agriculture partners met to discuss how to better capture non-cost shared cover crop practices.

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
7/2013	Spearhead an effort to examine the best approach for a Certainty Program in Delaware (Section 9.6.5.1)	Inter-Departmental Review	DDA, DNREC, USDA (NRCS), EPA, Universities, Nutrient Management Commission	This effort is in the very early stages of development. We require an affirmation from EPA and USDA concerning the concepts we have discussed before moving forward. In addition, we will be assessing the potential “buy-in” from the regulated community before finalizing any program strategy.	Ongoing. Meetings hosted by DDA to determine approach, content and process. Draft legislation and regulations are developed and in review process.
FY2014	DNREC and DDA will pursue additional state funding for cover crops in the FY14 budget	Additional funding	DNREC, DDA		The Delaware Association of Conservation Districts requested an additional \$500,000 in state funds for implementation of cover crops in Delaware for FY2014 on February 28, 2013 through the State Bond Bill Committee. A decision will be made by July 1, 2013.
2012 2013	Conservation Outreach to Non-English Speaking Poultry Growers	Public Outreach	Maryland Association of Soil Conservation Districts		MD is developing initiative that may apply in DE once completed.
Feb 2012 Completed	Delaware plans to host a P-Index Conference within the state (Section 9.4.1.1)	Conference	DDA		As stated in our Phase II WIP, under 9.3.1.2, Delaware DDA hosted a P-Site Index Summit on February 2, 2012. At that time, stakeholders reviewed the Maryland P-Index and their plans to update the index as well as the Delaware P-Index. The NRCS 590 standard review guidance was also reviewed along with the links between the 590 standard and the P-Index. As updates to the 590 Standard continue, Delaware will continue to assess the need to update the P-Index. In addition Delaware will participate in an NRCS CIG funded project sponsored by Penn State University to “refine and harmonize phosphorus

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
					indices in the Chesapeake Bay region to improve critical source area identification and to address nutrient management priorities.” This is a three year project that will coordinate the testing and revision of phosphorus management tools with the Chesapeake states. All major land grants in the Chesapeake are contributing or engaged in this project, including the University of Maryland.
2012 Completed	Demonstrate an innovative and highly effective flooring system for reducing ammonia emissions in chicken houses	Research Project	DDA		Research demonstrated in MD but data found to be unfavorable. This practice is not being pursued at this time.
2012 Eliminated	Research project investigating innovative manure-to-energy technologies and the creation of marketable fertilizer products that generate farm income	Research Project	Natural Resources Conservation Service (NRCS)		Funding through Fish & Wildlife Foundation Grant sought by Maryland but denied. This is a MD initiative that may apply in DE once completed. Delaware will not seek separate funding for this project and we do not expect any additional steps to be taken for this milestone, as this was solely a Maryland/NRCS initiative.
Planning & Landuse					
12/2012 2013	Work with the Chesapeake Bay Program to receive model credit for urban fertilizer phosphorus bans in neighboring states (Section 8.1.2.1)	Model credit	DNREC/DDA		Currently in review by the CBP Urban Stormwater Workgroup. Action pending.
12/2013	Master Plans and/or validate build out scenarios for Bridgeville Sewer District; Laurel Sewer District; and Seaford Sewer District (Section 8.2.1)	3 Plans	University of Delaware (UD)/Office of State Planning Coordination (OSPC)		Ongoing. Greenwood/Bridgeville Sewer District scenario almost complete. Laurel and Seaford Sewer District in progress.

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
12/2012 Completed	Update base watershed build out model to include 2010 census (Section 8.2.1)	Model update	UD		Completed December 2012.
2013	<p>Adopt statewide Offset Regulations (Section 8.2.2.2) (add'l info in Jan 2012 version) Key steps proposed in the State Action Notice are identified below:</p> <ul style="list-style-type: none"> • Create Regulatory Advisory Council - Winter 2011 • Develop draft regulation - by July 2012 • Public workshops – September 2012 • Revise draft regulation – November 2012 • Publish in Register- December 2012 • Public hearing – January 2013 • Effective date – March 2013 	Regulations	DNREC	<p>Outreach efforts have begun and continue with key stakeholders such as municipalities, industrial user and developer community. Within this legislative session, a formal working group will be established to begin to review existing state regulations and where necessary, develop and recommend amendments to current Del Code and develop new code.</p>	<p>A phased approach for a state wide offset program is being used. An update was provided to EPA (Jon Capacasa and Pat Gleason) regarding the status of our offset program on February 28th. A sediment and stormwater offset program including establishment of an in-lieu fee expected to be implemented with the promulgation of new regulations in 2013. Revised proposed on-site wastewater regulations also include language to require offsets and are expected to be promulgated in 2013. A workshop was held with municipalities, partners, and representation from the Homebuilders Association of Delaware on March 5, 2013 to identify local challenges and needs as well as share information on new tools in development to be able to track offsets, including a Nutrient Budget Protocol, establishment of baseline loads for each municipality, and an urban BMP tracking and reporting tool. Additional workshops will be held in the fall regarding these tools, as well as one on one meetings with each local government over the 2nd and 3rd quarters of 2013 to develop local offset plans. A working group will also be established by the end of July 2013 to draft statewide regulations for an offset program to be proposed by December 31, 2013.</p>
12/2013	The Office of State Planning and Coordination and Sussex County will review approved development projects within the last five years to determine which projects may be sun-set. This	Planning/Model Input	OSPC/Sussex County		Sussex County has approved a third extension to extend the life of proposed development projects for an additional three years – through 2016; however several projects have requested to revert to Agriculture use or have communicated they are not

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
	information will be provided to EPA's Chesapeake Bay Program to be considered in nutrient loading calculations for Delaware's TMDL allocation.				going to develop. We continue to work with our county partners to identify those projects and will provide updated information when it becomes available.
10/2013	Review of the Kent County and Sussex County Comprehensive Plans	Planning	OSPC/Kent County	The next update of the plan is due by October 2018.	Pending. Comprehensive Plan reviews are due October 2013. Comprehensive Plan updates are due October 2018.
Public Lands					
12/2012 10/2013	Establish BMP tracking database (Section 11.1.1.2)	Database	DNREC/DDA		Will work with Restoration Committee to incorporate public BMPs in their restoration database. This restoration database will be used to track agriculture and urban BMPs. Information from database will be included into the National Environmental Information Exchange Network (NEIEN) submission.
11/2012 Completed	Internal decision will be made whether cover crops and buffers will be required on DNREC Ag leased lands (Section 11.1.1.2)	Policy Decision	DNREC		Completed – Cover crops are required on DNREC Ag leased lands. An assessment was completed and no waters were identified as needing buffers.
1/2012 12/2013	Analyze all State owned lands for reforestation/ afforestation opportunities (Section 11.1.1.2)	Internal review	DNREC	Initiated.	DNREC will be meeting with DDA, in March 2013, to discuss reforestation/afforestation opportunities on all State Forest lands. Once implemented, these practices will be added to the restoration database for inclusion in National Environmental Information Exchange Network (NEIEN) submission. We are also working with our Divisions of Parks and Recreation and Fish and Wildlife to identify opportunities on DNREC owned properties. DNREC is also working with the Conservation Fund to develop a GIS of “conservation opportunity areas”.

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
6/2012 12/2013	Review tax ditch management (Section 11.1.1.2)	Internal review	DNREC		DNREC will be meeting with DDA, in March 2013, to discuss tax ditch management strategies on all State Forest lands. Additionally, in Second Quarter 2013, DNREC will work with the Conservation Districts to discuss tax ditch management strategies in each County as well as identify strategies for tax ditches located on state owned land. A water resources planner has been hired by Sussex Conservation District to work with tax ditch managers and our drainage program in Sussex County to identify restoration opportunities on tax ditches, develop conservation plans and improve management plans, and track and verify implementation of BMPs and plans with tax ditch associations in Sussex County. Kent Conservation District is already providing this service and has been for the last two years, as demonstrated in our CBRAP semi-annual reports.
6/2012 12/2013	Review effectiveness of stormwater facilities (Section 11.1.1.2 3)	Internal review	DNREC		The Public Lands Workgroup and Restoration Workgroup have been combined to improve efficiency and reduce overlap in work products. As discussed previously, the workgroup(s) continue to work with our partners at DDA (Forestry), DNREC (Parks and Fish and Wildlife), and the Conservation Districts to identify BMP implementation opportunities as well as to identify, track and verify existing BMPs, including agriculture, drainage, stormwater, and conservation practices that may have been established previously but not included in reports. These practices will be reported as appropriate through NEIEN in December 2013.

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
6/2012 12/2013	Review Tributary Action Teams recommendations for consistency (Section 11.1.1.2)	Internal review	DNREC		The Watershed Assessment Section of DNREC along with NonPoint Source Program staff are currently reviewing all watershed based plans statewide (Whole Basin, Pollution Control Strategies and Tributary Team Recommendations; 319 Program Watershed Plans, etc for consistency and improved prioritization. This is an internal review process that is expected to be completed by the end of 2013.
Federal Lands					
12/2013	Establish baseline loadings and retrofit opportunities at both the Pigman Armory (10A90) and Seaford Readiness Center (10A65) (Section 11.1.4)	Opportunity List	DNREC, WAS Army National Guard Reserves	Currently, the Army National Guard has a contractor examining impacts and opportunities.	Stormwater infrastructure was assessed at DEARNG facilities and baseline loadings have been calculated. Retrofit opportunities are being evaluated.
2012 Ongoing	The Pigman Armory and Seaford Readiness Center will continue to support Delaware's WIP Phase II processes in 2012 and 2013.	WIP implementation	Army National Guard Reserves		DEARNG will continue to support Delaware's WIP Phase II process with milestone reporting.
2012 2013-2014	The Pigman Armory and Seaford Readiness Center will continue to implement the Army Policy for Sustainable Design and Development (SDD), October 2010 and Low Impact Development (LID) under the Energy Independence and Security Act of 2007 (EISA) as a means to manage stormwater for all future construction and maintenance projects.	Managed stormwater	Army National Guard Reserves	Currently there are no new construction projects scheduled through 2018.	Seaford Readiness center is continuing to implement the Army SDD policy. Demolition of the old Seaford Readiness Center is expected to begin sometime after the end of 2013. Construction of the new Readiness Center will begin once that work is completed.
Restoration					
10/2013	Development of a revised restoration database to list and help prioritize	Database	DNREC, WAS		Restoration Subcommittee will review current database in March. Information from database will

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
	potential restoration projects (Section 10.2)				be included into the National Environmental Information Exchange Network (NEIEN) submission.
Communications					
2013	Develop and implement a Communications Marketing Plan (Section 14.5.3)	Public Outreach	DNREC and Communications Team	Communications Marketing Plan has been developed.	Implementation Ongoing. The plan has been developed and a contractual staff person has been hired through CBRAP funding to focus on implementation of this program and plan. The Communications team, which is interagency and includes state, federal and nonprofit partners, meets on a quarterly basis, at minimum. The communications team has adopted a Chesapeake Bay Pledge with a goal of three thousand participants stating efforts they will take to reduce nutrient and sediment pollution in 2013. They have developed a social media plan including Twitter and Facebook pages, and are in the process of improving our website. The Team is working with various partners to develop short videos to share with the public and our partners through various outlets including social media and public service announcements through more traditional media sources. To date two have been developed. Our communications/ marketing specialist is also working with local hardware companies, specifically in Seaford area as a pilot project, to develop displays for conservation projects such as rain gardens and rain barrels for homeowners. If successful, additional materials/displays may be developed. A program to provide cost share and/or giveaway rain barrels and trees to residents of Chesapeake Bay Watershed is also being developed

Delaware’s Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	2012 Comments/Status Updates	2013 Comments/Status Updates
					in partnership with our Nonpoint source program for spring 2013. Significant outreach has occurred in the last year to promote onsite septic funding opportunities for low and moderate income residents within the watershed. Plans of three additional community workshops at local churches or libraries are also in effect. Finally, our Communications and Marketing team expect to participate or provide materials for up to eight of the most attended and appropriate festivals or events within the watershed this year.